

Oct 9, 17

CLAIMS

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- an area with stepped straight guides (9, 10; 45, 46; 57, 58) adopting the form of a groove closed in its rear end and open in its front end to permit the gliding introduction of the lateral wings (18, 19; 50, 51) of the tooth (17, 49) having at least one of said lateral wings (18, 19; 50, 51) an internal projecting block (54) which during the assembly of the tooth (17, 49), runs along the lateral grooves (22, 23; 45, 46 and 58) being retained in position by the retaining bolt (25, 59),
- an area for retaining the tooth (17, 49) formed by two bowed recesses (60) provided in the front edge (7) of the tooth-carrying portion (1, 27) which recesses (60) receive the rear edge (61) of the opening or mouth of the tooth (17, 49) comprising a sharp angle α to the perpendicular to the mean plane of the tooth (17, 49), which angle is complementary of said rear edge (61) of the mouth

stepped guides (9, 10; 45, 46; 57, 58), forming the mating area, and merging without interruption with a surface of the end mating area (24, 31).

5.- Coupling for the teeth of excavators and the like, according to Claim 1, characterized in that the stop function performed by the bowed recesses (60) of the front edge of the tooth-carrying portion (1, 27) in respect to the rear edge (61) of the opening or mouth of the tooth (17, 49) is complemented by the stop action performed by the rear walls of the stepped straight guides (9, 10; 45, 46; 57, 58), in respect to the protruding ends of the side wings (18, 19; 50, 51).

6.- Coupling for the teeth of excavators and the like, according to claim 1, characterized in that the bolt (25, 59) for retaining the tooth (17, 49) on the tooth-carrying portion (1, 27) has a shorter length than the hole (26, 47, 48) for receiving the same of the tooth-carrying portion (1, 27) permitting said hole to receive upper or lower removable covers (34, 35).

7.- Coupling for the teeth of excavators and the like, according to Claim 6, characterized in that the covers (34, 35) closing the hole for receiving the bolt are partially seated in the end upper and lower recesses (32, 33) of the hole (26, 47, 48) for the bolt (25, 59).

8.- Coupling for the teeth of excavators and the like, according to Claims 1 and 7, characterized in that the profile of the side wings (18, 19; 50, 51) of the tooth (17, 49) is complementary to the profile of the stepped straight guides (9, 10; 45, 46; 57, 58).

9.- Coupling for the teeth of excavators and the like, according to Claim 1, characterized in that the cross section of the end area (24, 31) in the form of an irregular hexagon extends in correspondence with at least one of the ends, in a rectangular shaped prolongation.

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